ANARTS News Bulletin 952 30 March 1997.

This is the Australian National Amateur Radio Teleprinter Society
with our weekly Rtty Cast. We transmit on the following frequencies
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  3.545 MHz (Plus/minus 5)   0930 UTC     VK2CTD (COL)
  7.045 MHz  -3              0030 UTC     VK2CTD (COL)
 14.070 MHz (amtor/fec)      0030 UTC     VK2DPM (ALAN)
 14.091 MHz                  0030 UTC     VK2DPM (ALAN)
146.675 MHz             0030/0930 UTC     VK2JPA (PAT)
144.850 MHz (ax25 bbs)                    VK2JPA AT VK2WI
146.675 MHz (rtty mmbbs/repeater)         VK2RTY

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Views expressed in this news bulletin are not necessarily
those of the Broadcast Officer, the Relay Officers, or of the
Society.

0A.N.A.R.T.S. News Bulletin 952 30 March 1997.

COLS COLUMN

LAST WEEK WE SAW HOW MICHAEL FARADAY DISCOVERED THAT WHEN TWO
INSULATED COILS WERE WOUND ON A MAGNET, A MOMENTARY CURRENT
FLOWED IN THE SECONDARY COIL WHEN THE PRIMARY WAS CONNECTED TO
A BATTERY. AND ANOTHER MOMENTARY CURRENT FLOWED IN THE
SECONDARY WHEN THE PRIMARY WAS DISCONNECTED FROM THE BATTERY.

AN ACCOUNT WRITTEN BY JOSEPH HENRY STATES THAT HE HAD ALSO
CARRIED OUT EXPERIMENTS WITH COILS AND MAGNETS AND SAYS
"BEFORE HAVING ANY KNOWLEDGE OF THE METHOD GIVEN IN THE ABOVE
ACCOUNT (FARADAY'S), I HAD SUCCEEDED IN PRODUCING ELECTRICAL
EFFECTS IN THE FOLLOWING MANNER, WHICH DIFFERS FROM THAT
EMPLOYED BY MR. FARADAY AND WHICH APPEARS TO ME TO DEVELOP
SOME NEW AND INTERESTING FACTS". HE USED HIS LARGE MAGNET AND
WOUND A 30 FOOT LENGTH OF INSULATED WIRE AROUND THE TWO ENDS
OF IT. THIS WINDING WAS CONNECTED TO THE ZINC AND COPPER
PLATES OF A BATTERY WHICH HE COULD LOWER INTO A CONTAINER OF
DILUTE ACID. ANOTHER INSULATED COIL WAS WOUND AROUND THE
MIDDLE OF THE U SHAPED MAGNET AND THE WIRES WERE LED AWAY TO A
GALVANOMETER 40 FEET AWAY.

HENRY CONTINUES "THIS ARRANGMENT BEING COMPLETED, I STATIONED
MYSELF NEAR THE GALVANOMETER AND DIRECTED AN ASSISTANT AT A
GIVEN WORD, TO IMMERSE SUDDENLY, IN A VESSEL OF DILUTE ACID,
THE GALVANIC BATTERY ATTACHED TO THE ACID. AT THE INSTANT OF
IMMERSION. THE NORTH END OF THE NEEDLE WAS DEFLECTED 30
DEGREES TO THE WEST, INDICATING A CURRENT OF ELECTRICITY FROM
THE HELIX SURROUNDING THE MAGNET. THIS EFFECT, HOWEVER,
APPEARED ONLY AS A SINGLE IMPULSE....

I WAS HOWEVER, MUCH SURPRISED TO SEE THE NEEDLE SUDDENLY
DEFLECTED FROM A STATE OF REST TO ABOUT 20 DEGRESS TO THE
EAST, OR IN A CONTRARY DIRECTION WHEN THE BATTERY WAS
WITHDRAWN FROM THE ACID". HENRY PLACED AN ARMATURE (SOFT IRON
PLATE) ACROSS THE NORTH AND SOUTH POLES OF THE U SHAPED
MAGNET. HE FOUND THAT WHEN THE ARMATURE WAS REMOVED OR PARTLY
REMOVED FROM THE MAGNET, "A CURRENT WAS CAUSED WHENEVER THE
MAGNETIC FLUX THROUGH THE COIL OF WIRE WAS CHANGED".

THIS IS THE PRINCIPLE OF THE TRANSFORMER WITHOUT WHICH MODERN

SYSTEMS OF ELECTRICAL COMMUNICATIONS, WOULD BE EITHER IMPOSSIBLE OR HOPELESSLY UNECONOMIC. IN 1838 HENRY SHOWED THAT USING DIFFERENT NUMBERS OF TURNS OF WIRE ON THE MAGNET THE VOLTAGE COULD BE STEPPED DOWN, AND THE PRINCIPLE OF THE TRANSFORMER WAS ESTABLISHED BY THIS PHYSICIST A QUARTER OF A CENTRY BEFORE INDUSTRY WAS SUFFICIENTLY DEVELOPED TO UTILISE IT.

I HAD THOUGHT THAT HENRY'S STORY WOULD END THIS WEEK, BUT NO WE HAVE ONE MORE WEEK TO GO WITH THIS REMARKABLE MAN.

73S FOR NOW DE COL VK2CTD.

IPS WEEKLY SOLAR AND GEOPHYSICAL REPORT

(14 MARCH - 20 MARCH)

ISSUED ON 28 MARCH 1997

Date	21	22	23	24	25	26	27
10cm	71	71	71	71	71	70	72
A	7	10	3	8	13	14	(6 ESTIMATED)
T	7	7	3	14	24	16	8

SOLAR ACTIVITY WAS VERY LOW 21ST TO 26 MARCH, AND LOW ON 27TH.

THE GEOMAGNETIC FIELD AT LEARMONTH, W.A. WAS QUIET ON 22ND TO 24TH, AND 27TH; QUIET TO UNSETTLED ON 21ST; UNSETTLED ON 25TH, AND UNSETTLED TO ACTIVE ON 26TH.

FREQUENCIES WERE NEAR MOSTLY NEAR PREDICTED MONTHLY VALUES WITH DEPRESSED PERIODS TO 15 PER CENT ON 23RD AND 27TH MARCH, AND ENHANCED TO 15 PER CENT FOR SOME TIME ON 25TH MARCH.

FORECAST (28 MARCH - 03 APRIL)

SOLAR: VERY LOW TO LOW.

GEOMAGNETIC: UNSETTLED DECREASING TO QUIET TO UNSETTLED.

FREQUENCIES: NEAR PREDICTED MONTHLY VALUES FOR LOW LATITUDES NEAR TO 15 PER CENT BELOW FOR MIDDLE AND HIGH LATITUDES.

COURTESY OF IPS RADIO AND SPACE SERVICES

RTDX0320 RTTY DX
VK2SG RTTY DXNOTES FOR WEEKENDING 20 MARCH 1997 (BID RTDX0320)

Our information this week came from I5FLN and the IK5PWJ Packet Cluster, DJ3IW and the Central Europe DX Cluster DB0SPC, W5KSI, WB2CJL, W2JGR and the NJ0M node of the Twin Cities DX Packetcluster Network, OH2BUA Webcluster and the KE5GA DX Packet Cluster in New Orleans

Bandpass

Friday 14
0055-14083 CX7FB
0111-14083 VP8CKN
0249-14084 UN5PR
0706-14080 4Z4DX
0910-14081 TF3FK
0918-14084 EW8DD
0935-14084 AL7PW
1053-14081 H44MS
1233-14081 TA2IO
1341-14082 PZ1BS
1346-14084 EW8DD
1436-14084 OD5PL
1535-14083 ZS8IR
1548-14086 IS0MVE
1648-14087 CO2KG
1649-14088 RA3GEO
1705-14080 LA7AJ
1925-14084 7Q7EH
2039-14080 9Q5PA
2119-14085 XT2DP
2345-14087 PZ1BS
2346-14082 3W5FM
2348-10123 5R8FK
2348-14082 KG4GC
2356-14085 H44MS

Saturday 15
0146-14087 OA4DHW
0159-14081 YB5NOF/8
0242-14076 XR8S
0318-14085 RK9CWA
0325-14088 A35RK
0402-14089 ZL3GQ
0550-14086 YO3JF
0550-14089 UT0ZZ
0821-21086 VK6GOM
0826-21088 7Q7EH
0829-21079 5X5F
1027-14089 S53MJ
1042-14083 NP2E
1244-14083 CO2KG
1252-14080 A71A
1311-21092 CT3BX
1312-14094 ZS8IR
1359-21081 XR8S
1422-21087 KG4GC
1825-14083 HP1AC

Sunday 16
0053-14087 UA0FZ
0053-14078 NH6XM
0102-14077 ZP5MAL
0118-14088 OA4DHW
0119-14083 LU9VET
0438-7030 YO3JF
0449-7043 PR2A
0614-14080 9H0A
0635-3580 NP2E
0645-14087 YB0NOF/8
0849-21085 7Q7EH

0858-21088 RK9CWA
1249-14088 LZ1LZ
1256-14091 UT0I
1257-14094 UT5FP
1309-14094 UA1WER
1312-10133 N4UQM/KH2
1323-14085 S53MJ
1324-21091 5X4F
1327-21080 CX7DF
1332-14077 CO2KG
1329-14090 9H0A
1404-14087 4X6UO
1411-14080 UT0ZZ
1428-14095 GW4KHQ
1442-14063 ZS8IR
1505-14093 UN5PR
1505-21079 CX7BF
1507-14084 LZ2MP
1521-14096 YL8M
1655-14073 UA1WER
1720-14088 KG4GC
1733-14081 UR5EDU
1807-14067 5X4F
1938 14084 C02KG
1946-14074 ZD8DEZ
2340-14078 CX7BF

Monday 17
0121-14081 VP8CKN
0129-14075 CX4NF
0141-14083 LU9VET
1257-14080 UN5PR
1429-14081 EZ8AI TURKEMEN
1450-14085 TF3GC
1500-14080 VU2AVG
1530-14080 V85GA
1834-14084 ZS1CM
1910-14072 5R8DG PACTOR

TUESDAY 18
1338-14084 SV5BYR
1343-14084 UN5PR
1354-14083 UA2AO
1405-14084 OZ1GBS
1459-14086 HB9JAP
1755-14086 KG4GC
1801-14088 OY4TN
1831-14083 XT2DP
1828-14085 4S7BRG
2018-14070 9K2EC
2327-14084 FG5FI

WEDNESDAY 19
0921-14082 TF3FK
1101-14085 OK2PAD
1319-14080 V85GA
1553-14086 YO3APJ
1609-14084 KG4GC
1759-14086 OD5NJ
1933-14085 P4/KB5DZP
2323-14086 LU8ERG

Thursday 20

0020-14081 PZ1BS
1139-14081 WP4Q
1216-14085 UA9WFO
1315-14083 4L1BR
1317-14082 UN5PR
1341-14084 EX7MA
1712-14088 9K2HN
1728-14082 KG4GC
1900-14083 HF0POL

For next week's bulletin send your bandpass and Notes of Interest to Luciano at ZS5S.ZAF.AF
e-mail: iffln AT iot.it

73,
Randy

ARLD014 DX news - EXCERPTS

This week's bulletin was made possible with info provided by Tedd, KB8NW, the OPDX bulletin, the 599Rpt, Jeff, N4UQM, 425DX News, Paul, K1XM, and Contest Corral from QST. Thanks to all.

ANTARCTICA. Juan, CE9OH, is still active daily on 14260 khz, from 2200 to 2400z. Nick, EM1HO, is QRV from Vernadsky Base on all bands. QSL via I2PJA.

GUERNSEY, GU. Bob, W7MAE, will be active from this Channel Island March 24 to April 5, signing either MU/ or GU/homecall, using SSB and some RTTY.

GUAM, KH2. Jeff, N4UQM, is QRV from Guam using RTTY. He will try to make as many QSOs as possible on 80, 40 and 20 meters. QSL via WB4UBS.

The Ohio/Penn Dx PacketCluster
DX Bulletin No. 297 - excerpts

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, W1YY, W3UR & The Daily DX, K4MZU, N4GN, N5VWM, W5IJU & Island/DX News, W5KSI, K8CH, 4L2M, DJ7IK, DL4VBP/N0PS, G4BUE & DX News Sheet and VA3CW for the following DX information.

The 'DX News Sheet', reports that Pierre, HB9AMO, will be active for two months as 9Q5BQ from Kinshasa. Operation will be on CW on 20 meters with a vertical, but activity on other bands will come soon. QSL to home call.

In a news release by Tim, N4GN, he reports:
'Planning for the BS7H 1997 DXpedition to Huang Yan Dao (Scarborough Reef) is proceeding on schedule. Several team members, including Wang, BA1OK and Kan, JA1BK, met recently in Guangzhou to finalize all details regarding the ship with Captain Wang Jian-xi and his crew. Arrangements were also made for generators, fuel, food and the numerous other supplies necessary to ensure the success of the operation.

EA8 & EA9, CANARY ISLANDS AND CEUTA (WPX 20-meter shootout)
Pekka, OH1RY, and Martti, OH2BH, have decided to activate

EA8AH (Canary Islands) and EA9AM (Ceuta) respectfully. Both stations will be running single band 20 meters in the CQWPX SSB, and you may catch them to prior the contest which is the weekend of March 29-30th.

Look for Bob, W7MAE, (ex K7RDH) to be active this week until April 5th, as MU/W7MAE or GU/W7MAE. Operations will be on SSB with some activity on RTTY. Look for him on 20 and 10 meters. QSL to home call.

Rich, KF8UN, will be /KP2 from March 26th to April 2nd. He will be an entry in the CQWW WPX SSB Contest. QSL to CBA.

Well known DXer Wayne Mills, N7NG, has been appointed by ARRL President Rod Stafford, KB6ZV, to chair the DXAC. Congratulations to Wayne. By the way, Wayne will be one of the operators to the next BS7 DXpedition (Read BS7).

Al, NH7A, will be on for the CQWW WPX SSB Contest on all bands, high power. He will be looking for Europe on 20 meters 0500-0800z. QSL cards will be shipped from the printer April 10th. QSL this operation and AH7G via N2AU.

'The Daily DX' reports that S0RASD will be active from March 27-31st. Operators include EA2JG, EA3CB, EA3CZM, EA3GBU, EA4TX and S01A. Other operators may include EA1DAV, EA2CNU and EA4AFA. The will be on both SSB and CW. They will participate in CQWW WPX SSB. This DXpedition is sponsored by LYNX DX Group.

Bernhard, DL2GAC, plans to be on next weekend (March 29-30th). His callsign is currently unknown. QSL to home callsign.

The 'DXNS' report that Jim, G0IXC, will be active next month between April 9-30th, as V47XC from Hurricane Cove. Activity will be SSB on 40, 20, 15 and 10 meters with a dipole and tri-band yagi. QSL to home call.

Thomas/DL3FDU, Felix/DL8OBC/N5BC and Patrick/DL4VBP/N0PS will be active from Izmir, March 25-31st. They will take part in the CQWW WPX SSB Contest and have the permit to use the special callsign YM3DL throughout their stay.

Excerpts and distribution of The OPDX Bulletin are granted as long as KB8NW/OPDX/BARF80 receive credit.

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President (Col) VK2CTD at VK2WI, or the Secretary (Pat) VK2JPA at VK2WI.

Email address for the Broadcast Officer is :

patl(at)pitt.conmusic.su.oz.au
or patl(at)extro.ucc.su.oz.au

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Dave Horsfall (VK2KFU) | dave@esi.com.au | VK2KFU @ VK2KFU.NSW.AUS.OC | PGP 2.6

Opinions expressed are mine. | D8 15 71 F9 26 C8 63 40 5E 63 5C 65 FC A0 22 99